

CLAIMS

1. A method for gripping an object, comprising the steps of: detaching at least one part of an object to be gripped while maintaining a mechanical link; retaining the detachable part at a distance from the object to be gripped; and mechanically engaging the at least one detachable part of the object to be gripped by at least one part of at least one gripping object by the spatial movement of at least a part of the latter; the detachment step being executed at least a certain time period before a moment of engagement, and the retaining step being executed at least up to the moment of engagement by generating at least one retaining force on the at least one detachable part, said force being directed at an angle to the object to be gripped,

characterized in that

at least a certain time period before the moment of engagement, there is the step of at least partial stabilizing an angle position of the at least one detachable part relative to the object to be gripped by rotating said part to provide it with own angular momentum directed at an angle to the object to be gripped.

2. The method as claimed in claim 1, characterized in that at least one detachable part is rotated before the moment of its detachment from the object to be gripped.

3. The method as claimed in claims 1, 2, characterized in that at least one detachable part is rotated after its detachment from the object to be gripped.

4. The method as claimed in claims 1–3, characterized in that at least a portion of the retaining aerodynamic force is generated by rotating at least one detachable part relative to the axis positioned at an angle to the object to be gripped.

5. The method as claimed in claims 1–4, characterized in that at least one detachable part is rotating using the thermal energy of combusted fuel.

6. The method as claimed in claims 1–5, characterized in that at least one detachable part is rotated using the electromagnetic energy.

7. The method as claimed in claims 1–6, characterized in that at least one detachable part is rotated using the mechanical energy.

8. The method as claimed in claims 1–7, characterized by rotating at least one detachable part using the aerodynamic energy.

9. The method as claimed in claims 1–8, characterized in that at least a portion of the retaining force is generated by applying a reactive force to at least one detachable part of the object to be gripped, said reactive force being directed at an angle to the object to be gripped.

10. The method as claimed in claims 1–9, characterized in that at least a portion of the retaining force is generated by applying an aerostatic force to at least one detachable part of the object to be gripped, said aerostatic force being directed at an angle to the object to be gripped.

11. The method as claimed in claims 1–10, characterized in that at least one rotating detachable part of the object to be gripped is at least partially oriented relative to the object to be gripped.

12. The method as claimed in claim 11, characterized in that at least one rotating detachable part of the object to be gripped is oriented at least a certain time period before a moment when said part starts to rotate.

13. The method as claimed in claims 11, 12, characterized in that at least one rotating detachable part of the object to be gripped is oriented in process of rotation of said part.

14. The method as claimed in claims 11–13, characterized in that at least a partial orientation is carried out by generating at least one orienting force on at least one rotating detachable part of the object to be gripped, said orienting force being directed at an angle to the object to be gripped.

15. The method as claimed in claim 14, characterized in that at least one orienting force is reduced in process of rotation of the rotating detachable part of the object to be gripped.

16. The method as claimed in claims 14–15, characterized in that at least a portion of the orienting force is generated by applying an aerodynamic force to at least one rotating detachable part of the object to be gripped, said aerodynamic force being directed at an angle to the object to be gripped.

17. The method as claimed in claims 14–16, characterized in that at least a portion of the orienting force is generated by applying an aerostatic force to at least one rotating detachable part of the object to be gripped, said aerostatic force being directed at an angle to the object to be gripped.

18. The method as claimed in claim 11–17, characterized in that at least a partial orientation of at least one rotating detachable part of the object to be gripped is carried out before a moment of its detachment.

19. The method as claimed in claims 11–18, characterized in that at least a partial orientation of at least one rotating detachable part of the object to be gripped is carried out after its detachment.

20. The method as claimed in claims 1–19, characterized in that an angular velocity of rotation of the rotating part of the object to be gripped is reduced at least after mechanical engagement of at least one detachable part of the object to be gripped by at least one part of at least one gripping object.